

Licensable Technologies

Hands-Off Sampler Gun

Applications: (Partial List)

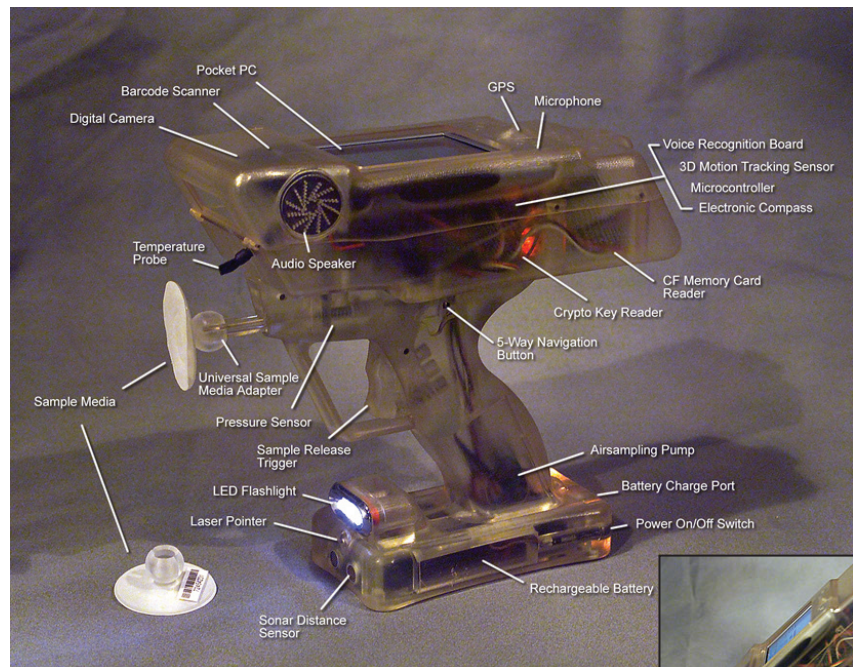
- **Environment/Ecology:** Enables investigators and scientists to examine containers and drums; inspect food products; collect solid, liquid, and gas samples; map vegetation; track wildlife; and scrutinize archaeological and cultural sites.
- **Forensics:** Collects evidence for all types of suspected crimes.
- **Homeland Security:** Helps first responders, such as the FBI's Hazardous Materials Response Team, assess threats involving radioactive, chemical, or biological agents.
- **Inspections:** Other potential users include healthcare providers, supply-chain safety assessors, pharmaceutical inspectors, and doping testers at sporting events.

Benefits:

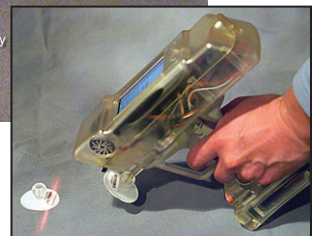
- Protects users from coming into contact with hazardous substances or organisms
- Eliminates cross-contamination ensuring sample integrity
- Establishes chain of custody—makes evidence defensible in court
- Supports many sampling media (filter paper, swabs, air filters)
- Eliminates manual record keeping
- Enables a single user to collect samples quickly

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The Hands-Off Sampler Gun's unique combination of sensors, tracking systems, and recording devices—coupled with its ability to take a wide variety of samples—makes it the ideal tool for doping testers at sporting events such as the Olympics, border inspectors, first responders, archeologists, crime-scene investigators and forensics personnel, waste and weapons inspectors, and ecologists.



Summary:

In recent years, high-visibility courtroom trials and television shows such as CSI (Crime Scene Investigation) have heightened the world's attention to sample collection and record keeping. Unfortunately, devices used to collect samples are often highly specialized, require separate procedures to use, and could expose an investigator to hazardous substances. Moreover, record keeping is usually done by hand, a time-consuming and error-prone process. The Hands-Off Sampler Gun developed at Los Alamos National Laboratory overcomes these shortcomings. It comes with a universal adapter that can use virtually any type of sampling media, a hands-off loading/unloading mechanism that eliminates direct contact with a sample, and a built-in electronic data-acquisition system that does away with manual record keeping. These features make the Sampler Gun an investigator's best friend.

Development Stage:

Reduced to practice, seeking partners to develop applications.

Patent Status:

Patent #6,947,866

Licensing Status:

Available for exclusive or non-exclusive licensing.

www.lanl.gov/partnerships/license/technologies/

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